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USSR PRODUCES SPECIAL PLOWS, LIME SPREADERS, DITCH DIGGERS

DESIGN BOULDER PROTECTOR FOR PLOWS -- Tallin, Sovetskaya Estonia, 24 Jul 53

On some fields in the Estonian SSR, as much as 45 percent of working time has been wasted during the plowing season because of the presence of boulders. These underground boulders have also caused damage to plows. To eliminate time wastage and damage to plows, an attachment to plows has been designed by the Institute for Plant Growing of the Academy of Sciences, Estonian SSR. The automatic plow protector raises the plow over the boulder whenever the plow hits one.

CLEAR FIELDS OF STONES, BOULDERS -- Moscow, Dostizheniya Nauki i Peredovogo Opyta v Sel'skom Khozyaystve, Sep 53

In the Estonian SSR there are about 500,000 hectares of land that need to be cleared of stones and boulders. Chief Engineer Kuusk of the Snareskaya MTS, Kingiseppskiy Rayon, designed two attachments for the S-80 tractor for use in clearing the land. One of the attachments is a hook for dislodging rocks and boulders and bringing them to the surface; the other is a shield-type plate for pushing boulders off the field. Operating with two S-80 tractors, one for the hook and the other one for the shield, it is possible to clear 50-60 cubic meters of boulders in one day. In 1952, the Vil'yandiskaya MTS cleared 6,675 cubic meters of rocks off 259 hectares of land. In 1953, Estonian plants produced ten rock-removing hooks which are now in use.

PRODUCE SPECIAL PLOW FOR SOLONETZ SOIL -- Moscow, Dostizheniya Nauki i Peredovogo Opyta v Sel'skom Khozyaystve, Sep 53

In 1952, the Odessa Oktyabr'skaya Revolyutsiya Plant produced ten P-50-P plows for testing on solonetz soil. The P-50-P plow has plowing depth of 35-40 centimeters. Prior to the P-50-P plow, the P-45-S-36 plow was used on solonetz soil.

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MECHANIZING THE LIMING OF SOILS IN THE USSR -- Moscow, Mashinno-Traktornaya Stantsiya, Feb 53

At present, most of the work of liming soils in the USSR is done manually. Liming with machines saves time and the uniform application of lime by machines brings better results. For the mechanization of soil liming, MTS use the RITs lime spreader, the RI-2.5 tractor-drawn lime spreader, the TR-1 fertilizer spreader, and the STK-2.3 fertilizer spreader.

The RITs lime spreader can be drawn by truck, tractor, or horse. It spreads lime over a strip 3-5 meters wide and can cover an area of 8-11 hectares in a 10-hour shift. The RITs lime spreader spreads 2-3 tons of ground lime per hectare or 3-4 tons of lime tuff per hectare. The RITs differs from other spreaders in that it can spread slightly damp, unsifted lime. Other lime and fertilizer spreaders can only spread dry, sifted lime.

The RI-2.5 tractor-drawn lime spreader can spread 2-3 tons of lime over 3-6 hectares in a 10-hour shift. One drawback of the RI-2.5 spreader is the small capacity (130 kilograms) of its hopper. The limited capacity of the hopper makes the use of the RI-2.5 spreader more advantageous when small quantities of lime have to be distributed. -- Prof S. Yarusov

THE KF-30 DITCH DIGGER FOR PEST CONTROL -- Moscow, Mashinno-Traktornaya Stantsiya, Feb 53

The sugar beet weevil (curculio) and other sugar beet pests are destroyed by digging small ditches into which hexachloroethane is placed. These pest control ditches are usually dug by hand and very often the job of digging is delayed by labor shortages. The KF-30 ditch digger has been designed for digging pest control ditches, and in 1953 it will be used by a number of kolkhozes and sov-khozes engaged in sugar beet growing. The KF-30 digs a ditch 30 centimeters deep and 16 centimeters wide. It is drawn by the STZ-NATI tractor. -- I. Poltavtsev and O. Petrukha

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